

Amendments to the Claims

This Listing of Claims will replace all prior versions and listings of claims in the application:

1 - 18. (Canceled)

19. (Currently Amended) A stable anode for use in an electrolytic ~~metal~~-aluminum production cell, the stable anode comprising a monolithic body containing at least 80 wt % iron oxides, the iron oxides where the anode is a material selected from the group consisting of Fe_3O_4 , Fe_2O_3 , FeO and mixtures thereof, where at least one of Fe_3O_4 and Fe_2O_3 is present, and where the anode may optionally contain additive.

20. (Previously Presented) The stable anode of Claim 19, wherein the iron oxide is from zero to 100 weight percent Fe_3O_4 , from zero to 100 weight percent Fe_2O_3 , and from zero to 50 weight percent FeO , where at least one of the iron oxides Fe_3O_4 and Fe_2O_3 is present.

21. (Previously Presented) The stable anode of Claim 19, wherein the iron oxide is Fe_3O_4 .

22. (Previously Presented) The stable anode of Claim 19, wherein the iron oxide comprises is Fe_2O_3 .

23. - 24. (Cancelled)

25. (Previously Presented) The stable anode of Claim 19, wherein the anode has a surface coated with the iron oxide.

26. (Original) The stable anode of Claim 19, wherein the anode remains stable in a molten bath of ~~the electrochemical~~ an electrolytic aluminum production cell at a temperature of up to 960°C .

27. - 29. (Canceled)

30. (New) The stable anode of Claim 21, wherein the monolithic body is entirely composed of Fe_3O_4 and FeO .

31. (New) The stable anode of Claim 22, wherein the monolithic body is entirely composed of Fe_2O_3 and FeO .

32. (New) The stable anode of Claim 19, wherein the monolithic body comprises at least 90 wt % iron oxides.

33. (New) The stable anode of Claim 32, wherein the stable anode comprises up to 10 wt % of an additive, wherein the additive is an oxide of one of Al, Si, and Mg.

34. (New) The stable anode of Claim 19, wherein the monolithic body comprises at least 95 wt % iron oxides.

35. (New) The stable anode of Claim 34, wherein the stable anode comprises up to 5 wt % of an additive, wherein the additive is an oxide of one of Al, Si, and Mg.

36. (New) An electrolytic aluminum production cell including a plurality of the stable anodes of Claim 19.

37. (New) The electrolytic aluminum production cell of Claim 36, wherein the electrolytic aluminum production cell contains a cryolite bath and wherein the electrolytic cell is operable to produce commercial purity aluminum utilizing the plurality of stable anodes, wherein the commercial purity aluminum contains a maximum of 0.5 weight percent iron.

38. (New) The electrolytic aluminum production cell of Claim 37, wherein the electrolytic aluminum production cell is operable at temperatures of from about 850°C to about 920°C to produce the commercial purity aluminum.

39. (New) The electrolytic aluminum production cell of Claim 38, wherein the commercial purity aluminum contains a maximum of 0.034 weight percent Ni, a maximum of 0.034 weight percent Cu, and a maximum of 0.15 weight percent Si.